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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 09/03/2008

ERIC B. MEYERTONS
CONLEY, ROSE & TAYON, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER

COLBERT, ELLA

ART UNIT

PAPER NUMBER

3696

DATE MAILED: 09/03/2008

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

09/699,037

10/27/2000

Steven G. Doughty

5053-31401/EBM

6766

TITLE OF INVENTION: CONFIGURING KEYS FOR USE IN PROCESSING BUSINESS DATA

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1440 | \$0 | \$0 | \$1440 | 12/03/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

7590

09/03/2008

**ERIC B. MEYERTONS
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AUSTIN, TX 78767-0398**

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

| |
|--------------------|
| (Depositor's name) |
| (Signature) |
| (Date) |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/699,037 | 10/27/2000 | Steven G. Doughty | 5053-31401/EBM | 6766 |

TITLE OF INVENTION: CONFIGURING KEYS FOR USE IN PROCESSING BUSINESS DATA

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| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|---------------|----------|----------------|
| COLBERT, ELLA | 3696 | 705-037000 |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.**

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EXAMINER

COLBERT, ELLA

ART UNIT

PAPER NUMBER

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 857 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 857 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.

09/699,037

Examiner

Ella Colbert

Applicant(s)

DOUGHTY, STEVEN G.

Art Unit

3696

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 25 June 2008.
2. ☒ The allowed claim(s) is/are 6-16, 19, 20 and 79.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date ____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date ____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other ____. |

DETAILED ACTION

1. Claims 6-17, 20, and 79 are pending. Claims 1-5, 17, 18, and 21-78 have been cancelled either in this prior communication or in this communication and claim 79 is a new claim in this communication filed 6/25/08 entered as Amendment After Final Rejection and Request for Extension of Time.

Allowable Subject Matter

Claims 6-16, 19, 20, and 79 are allowed.

The following is an examiner's statement of reasons for allowance: The closest prior art of record is (US 5,794,229) French et al. French discloses storing key definitions in a database table in a database of a Financial Service Organization (FSO) Computer System with key definitions in the database table configured for use in processing FSO transaction-related data, displaying two or more key element representations on a display screen, and receiving a selection by a user of at least two key element representations from the two or more displayed key element representations, preparing a key definition from two or more key elements, and storing the key definition in the database table but failed to disclose defining by the user one or more key masks for the key definition and the one or more mask fields in the key mask corresponding to one or more key elements in the key definition then storing the one or more key masks in the database in claim 6 and the plurality of mask field values comprising an equal mask field value and a wildcard mask field value in claim 76 was not disclosed or suggested by the prior art. The next closest prior art is (US 5,995,971) Douceur et al. Douceur discloses a search key, a hierarchy, masks, fields, values, and

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a wildcard but failed to disclose, defining by the user one or more key masks for the key definition and the one or more mask fields in the key mask corresponding to one or more key elements in the key definition then storing the one or more key masks in the database in claim 6 and the plurality of mask field values comprising an equal mask field value and a wildcard mask field value in claim 76 was not disclosed or suggested by the prior art. Continuum Connections to the Americas: "The Expanding Power of The Card; Deutsche Bank Poised to Lead the Industry with CAMSII"; April/May 1999; Pages 5-9 (Applicants' NPL Reference) disclosed transactions and database batch processing of the bank accounts of a cardholder and the authorization funds but failed to disclose defining by the user one or more key masks for the key definition and the one or more mask fields in the key mask corresponding to one or more key elements in the key definition then storing the one or more key masks in the database in claim 6 and the plurality of mask field values comprising an equal mask field value and a wildcard mask field value in claim 76 was not disclosed or suggested by the prior art. The American Banker entitled "Technology Terms" disclosed a database as a collection of records stored electronically; a menu is a screen display listing services the computer user may select; and relational data base management system is a software system that integrates more than one application program so that interfaces are not necessary and each is accessible instantly but failed to disclose defining by the user one or more key masks for the key definition and the one or more mask fields in the key mask corresponding to one or more key elements in the key definition then storing the one or more key masks in the database in claim 6 and the plurality of mask field values

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comprising an equal mask field value and a wildcard mask field value in claim 76 was not disclosed or suggested by the prior art. Leslie, Harry A. et al (EPO 747839A1) discloses a relational database management system with ranges and lists on multiple columns of a search key which constructs a usable search key in the absence of one or more column values and orders the individual columns of the search key in the same manner as the table to which the key pertains but failed to disclose defining by the user one or more key masks for the key definition and the one or more mask fields in the key mask corresponding to one or more key elements in the key definition then storing the one or more key masks in the database in claim 6 and the plurality of mask field values comprising an equal mask field value and a wildcard mask field value in claim 76 was not disclosed or suggested by the prior art. Dievendorff, Richard et al; (EP0 280 773A) discloses a transaction oriented data processing system with a checkpoint and record log but failed to disclose defining by the user one or more key masks for the key definition and the one or more mask fields in the key mask corresponding to one or more key elements in the key definition then storing the one or more key masks in the database in claim 6 and the plurality of mask field values comprising an equal mask field value and a wildcard mask field value in claim 76 was not disclosed or suggested by the prior art.

For these reasons claims 6 and 79 are deemed to be allowable over the prior art of record, and claims 7-16, 19, and 20 are allowed by dependency.

Other Prior Art of Record

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bennett et al (US 5,615,367) disclosed a Relational Database Management System (RDBMS) with the user specifying two tables to link (e.g., with a pointing device) then the system in response determines a link (relationship) between the two tables and the system automatically attempts to create a link using a unique key (i.e., primary key, candidate key, or other unique index) of the master table. If a foreign key relationship exists between the two tables the system will select the foreign key to display to a user as a suggested link.

Li et al (US 5,553,218) disclosed a graphical user interface for relating key index properties to database columns with the use of primary and foreign keys for linking relationships between selected columns of related tables.

Kouchi et al (US 6,023,694) disclosed uniform databases and generating one or more key categories for organizing the data.

Moore et al (US 5,950,192) disclosed relational database technology which includes exact structure searching, substructure searching, key searching, name searching, formula searching, structure import/export and data editing.

Haderle et al (US 6,289,355) disclosed a database management system and a Relational Database Management System that stores and retrieves data in organized tables and a Structured Query Language (SQL) interface with queries conforming to the SQL standard.

Wlaschin (US 6,182,121) disclosed a table with rows and columns and each row having an object identification number (OID) and each column having an OID with the row corresponding to a record and the column corresponding to a field and the table also containing an index structure for extended queries.

Antoshenkov (US 5,495,608) disclosed database access during execution based on the actual number of retrieved keys used for record retrieval.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquiries

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ella Colbert whose telephone number is 571-272-6741. The examiner can normally be reached on Monday, Tuesday, and Thursday, 5:30AM-3:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dixon Thomas can be reached on 571-272-6803. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ella Colbert/
Primary Examiner, Art Unit 3696

August 18, 2008